

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method of emulating a device by a node on a serial bus comprising the steps of:

creating a virtual device object for the device;

responsive to the step of creating the virtual device object, loading an emulation driver for the device; and

dynamically exposing, on the serial bus, an emulated device functionality,

wherein the step of creating the virtual device object for the device occurs without the device being connected to the node.

Claim 2 (original): The method of claim 1 further comprising a step of: enumerating, by the node, at least one other node on the serial bus.

Claim 3 (original): The method of claim 2 further comprising the steps of:

creating, by the at least one other node, a physical device object for the device; and

loading a device driver for the device.

Claim 4 (original): The method of claim 1 wherein the step of creating the virtual device object is done by a bus driver.

Claim 5 (original): The method of claim 4 wherein the bus driver is an IEEE 1394 compliant bus driver.

Claim 6 (original): The method of claim 1 wherein the device is capable of being plugged natively into the serial bus.

Claim 7 (original): The method of claim 1 wherein the serial bus is an IEEE 1394 compliant serial bus.

Claim 8 (original): The method of claim 1 wherein the virtual device object can exist independent of bus events.

Claim 9 (original): The method of claim 8 wherein the bus events include at least one of: addition of the device and removal of the device.

Claim 10 (original): The method of claim 1 wherein the node is a personal computer running a general purpose operating system.

Claim 11 (original): The method of claim 1 wherein the step of exposing the emulated device functionality is done by configuration memory.

Claims 12-26 (canceled)

Claim 27 (currently amended): A device configured to emulate at least one other device comprising:

a configuration memory compliant with IEEE-1212 standard; and

a layered protocol stack in communication with the configuration memory, wherein the layered protocol stack comprises:

a bus driver;

at least one device object in communication with the bus driver for representing the at least one other device to be emulated; and

at least one device driver in communication with the at least one device object for interfacing with the at least one other device to be emulated,

wherein the at least one other device to be emulated is not coupled to the bus driver.

Claim 28 (canceled)

Claim 29 (original): The device of claim 27 wherein the bus driver is an IEEE-1394 compliant bus driver.

Claim 30 (original): The device of claim 27 wherein the device object is a virtual device object.

Claim 31 (original): The device of claim 27 wherein the device driver is a virtual device driver.

Claim 32 (original): The device of claim 27 wherein the configuration memory has at least one unit directory.

Claim 33 (currently amended): A computer-readable medium comprising instructions that, when executed by a computer on which a device will be emulated, perform the steps of:

creating a virtual device object;

loading an emulation driver; and

dynamically exposing, on a serial bus, a device functionality,

wherein the step of creating a virtual device object is performed without the device being connected to the node.

Claim 34 (original): The computer-readable medium of claim 33 wherein the computer instructions when executed further perform the step of causing enumeration, by the computer, of at least one other node on the serial bus.

Claim 35 (original): The computer-readable medium of claim 34 wherein the enumeration is caused by a bus reset.

Claim 36 (original): The computer-readable medium of claim 33 wherein the serial bus is an IEEE-1394 compliant serial bus.

Claims 37-39 (canceled)